Carolina Country

November 1981

What Is An Electric Co-op?
See "Viewpoint," page 3

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VIEWPOINT

What Is An Electric Cooperative?

This editorial offers some insights about the nature of an Electric Membership Corporation from the perspective of a veteran employee of a North Carolina EMC.

It was excerpted from a column by Wyona Johnson in the monthly newsletter of Crescent EMC, Statesville. Mrs. Johnson, who was the EMC's member and public relations advisor until her retirement in September, was with Crescent and its predecessor, Davie EMC, for 34 years.

Some of her comments are applied specifically to Crescent EMC, but they could be applied to any electric cooperative.

Government is not the U.S. capitol in Washington, D.C., the legislative building in Raleigh or the courthouse or town hall where you live.

Government is people—those who govern, and those who, in one way or another, allow themselves to be governed.

In a democracy the people themselves are the government.

How about our religious affiliations? Is the church a building with a steeple? A large room with a pulpit in front? A fellow in a black suit with a turned around collar? None of these things would have any special meaning if it were not for the congregations—the people. For it is the people who, in the most real sense, are the church.

So it goes with an electric cooperative. An electric membership cooperative is not buildings, employees, poles, lines, trucks, or a place from which you receive a bill each month for electric service. It's people, that's what it is.

It's people who, once upon a time, got sick and tired of living in the gloomy darkness of kerosene lamps, and decided to do something about it.

It's people who, once upon a time, got sick and tired of drawing and carrying every drop of water they needed; of doing without reliable refrigeration for preserving and storing food, and decided to do something about it.

It's people who, once upon a time, looked around and saw their city cousins enjoying comforts, conveniences and increased productivity made possible by adequate, reliable and affordable electric energy—while they were left in darkness and drudgery, and decided to do something about it.

It's people who, once upon a time, freely chose to help themselves by working together to accomplish something far beyond the reach of any individual, but well within the grasp of people joined as a cooperative.

People have been involved in the organization, operation and progress during the 42-year history of Crescent EMC. Our greatest strength has always been in the involvement of people—the member-owners.

The true test of involvement is caring. As long as the members of Crescent EMC care enough to work together in the true spirit of cooperation, there will be a Crescent EMC. And as successful as Crescent EMC has been during more than four decades, the best and brightest days could be, and should be, ahead.

Crescent EMC can be, and will be, anything that you, the members, want it to be.

But remember, if Crescent EMC should ever be allowed to wither and die, a part of you would die with it. For the members own Crescent EMC. The members control Crescent EMC. The members are Crescent EMC.

PASSING SCENE

• United Technologies Corporation of Hartford, Conn., ran this message in a recent ad in the *Wall Street Journal:*

How dumb? Very dumb. It's the American who knocks what he's got. Here's what he's got: A country of unbounded beauty. Almost unlimited natural resources. A judicial system that is the envy of the rest of the world. Food so plentiful overeating is a major problem. A press nobody can dominate. A ballot box nobody can stuff. Churches of your choice. One hundred million jobs. Freedom to go anywhere you want, with the planes, cars and highways to get you there. Medical Unemployment insurance. Public schools and plentiful scholarships. Opportunity to become a millionaire. O.K., Complainer, what's your second choice? Go."

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EMC Organization Names Staff Attorney

Raleigh attorney Thomas J. Bolch, who has represented electric cooperatives across the country for more than a decade, has been named staff general counsel for North Carolina's statewide organization of Electric Membership Corporations.

Bolch's law firm had represented the organization as outside counsel since 1976.

In the staff post, he'll provide legal services for all three corporations comprising the organization: N.C. Electric Membership Corporation (N.C.EMC), Tarheel Electric Membership Association (TEMA), and N.C. Association of Electric Cooperatives (N.C.AEC).

N.C. EMC is the power supply arm of the organization, while TEMA is a central purchasing and materials supply operation serving the state's 28 EMCs. N.C. AEC functions as the co-ops' statewide trade association.

Jim Hubbard, executive vice president of the three corporations, said a staff counsel is needed because of growing demands for legal services within the organizations, particularly in power supply activities.

"Our efforts to acquire a share of generating facilities from the investor-owned power companies in recent years have brought on heavy demands for legal services," he said. "With the outlook that those demands will remain strong in the years ahead, we felt we needed an attorney on the staff.

"It's our good fortune that Mr. Bolch felt he could continue to represent us under this arrangement. He's generally recognized as one of the leading rural electric lawyers in the nation."

Bolch's experience in rural electric legal affairs includes work for a number of generating and transmission cooperatives in cases before the Federal Energy Regulatory Commission. He serves as a special counsel to Oglethorpe Power Corporation, a generating and transmission co-op headquartered in Atlanta, Ga.

He played a major role in the negotiations between Georgia electric co-ops and Georgia Power Co. which led to Oglethorpe's formation in 1974.

He also handled all the legal work involved in the negotiations and financing arrangements for N.C. EMC and a group of South Carolina co-ops to buy a share of Duke's Catawba Nuclear Station.

Bolch opened his law firm in March, 1979, after serving for nine years as managing partner in the Raleigh law firm of Crisp, Bolch, Smith and Davis.

Earlier, he was a special assistant to Attorney General Robert Morgan, serving in the Consumer Protection Division, and was department attorney for the N.C. Department of Revenue.

He served as law clerk to Justice Susie Sharp, now retired Chief Justice of the N.C. Supreme Court.

The Hickory native has a bachelor's degree in business administration and a law degree from the University of North Carolina at Chapel Hill.

Bolch's background also includes stints as a news reporter for the Associated Press and United Press International and for various Tar Heel daily newspapers.

He was a member of the board of editors of the *N.C. Law Review* and serves as an adjunct professor at Campbell University School of Law where he teaches a course on public utility law.

Flattery Gets N.C. EMC Post

Brian M. Flattery, former director of the North Carolina Energy Division, has been named director of power supply construction for North Carolina Electric Membership Corporation.

In the newly created position, Flattery will monitor construction activities at the Catawba Nuclear Station near Charlotte, spending much of his time at the construction site.

Earlier this year, N.C.EMC purchased a 56.25 percent share of Catawba's Unit 1 from Duke Power Company. The plant is being built by Duke.

Flattery, who has bachelor's and master's degrees in engineering mechanics from Virginia Polytechnic Institute (VPI), served as chief of the State Energy Policy Council from 1977 to 1979.

Since then, he has been operating his own engineering consulting firm, specializing in energy concerns.

Prior to joining state government, Flattery spent two years as an assistant professor of engineering at the University of North Carolina at Charlotte. Earlier, he had been an instructor in engineering at VPI for two years.

Flattery also spent two years as a research and development engineer at Fiber Industries, Inc. in Charlotte.

Data Processing Chief Appointed

Gerald E. (Butch) Kachelries, who has operated his own computer consulting firm for the past seven years, has been named director of data processing for the statewide organization of Electric Membership Corporations.

The Huntingdon, W.Va., native will advise the North Carolina Association of Electric Cooperatives, N.C. Electric Membership Corporation and Tarheel Electric Membership Association on the purchase, installation and operation of data processing equipment required by the EMCs' purchase of a share in the Duke Power Company Catawba Nuclear Station.

He'll also serve as analyst, programmer and overall advisor on computer operations.

Kachelries, who had served the statewide organization as a consultant for the past four years, previously was data processing manager for two companies before starting his consulting firm.

He attended Marshall University and studied data processing at Wake Technical College.

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NC-11

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Guides Offered For Do-It-Yourselfers

If you're interested in do-it-yourself home improvement projects involving the use of bricks, you can obtain free literature on such projects from the Brick Association of North Carolina.

For complete instructions and design ideas for brick patios or walkways that require no mortar, or for a brochure on brick fireplace designs, write to the Brick Association, P.O. Box 6305, Greensboro, N.C. 27405.

Wildlife Art Show Set For Dec. 4-5

Hundreds of paintings, drawings, prints and sculptures of wildlife will be featured in the 14th annual Carolina Wildlife Art Exhibition and Sale show, Dec. 4-5, at Raleigh's North Hills Shopping Center.

The show, sponsored by the Wake County Wildlife Club and Auxiliary, is limited to art depicting native wildlife. It will be open during regular mall hours, 10 a.m. to 10 p.m. each day.

A percentage of sales from the show will be used in furthering wildlife conservation programs.

For entry forms or additional information, write to Linwood K. Berry Jr., co-chairman, Wake County Wildlife Art Show, P.O. Box 115, Willow Springs, N.C. 27592.

Sunset Over Bogue Inlet

This eerie sunset was photographed by George M. Mitchell of Swansboro, a professional photographer working in illustration and advertising.

The scene was shot from the Cameron-Langston Bridge, also known as the Emerald Isle Bridge, looking toward Bogue Inlet. Emerald Isle is to the left and Swansboro, to the right.

Solar Heater Project Hits Financial Snag

A plan by the N.C. Energy Extension Service (EES) to help do-it-yourselfers build their own solar water heaters has hit a snag.

Federal budget cuts just announced by the Reagan Administration have wiped out most of the funds earmarked for the project, leaving just a few community colleges ready to offer the do-it-yourself classes.

EES had intended to help community colleges all over North Carolina teach homewoners how to put together and install solar systems that can be bought as kits for less than $1,000.

With the energy conservation tax credit, which amounts to 65 percent, the cost is low enough for almost anyone to afford. But without the funds, the ambitious program can do little more than limp through the next few months, EES officials said.

Schools already prepared to offer the classes are: Lenoir Community College, Kinston; Cape Fear Community College, Wilmington; Durham Community College, Durham; Guilford Technical Institute, Jamestown; Western Piedmont Community College, Morganton and Maryland Technical Institute, Spruce Pine.

A few other schools have already worked with EES and are prepared—but haven't yet decided whether to offer the classes.

Fuller Is Grange "Man of the Year"

Walter E. Fuller of Raleigh, a former manager of the statewide organization of Electric Membership Corporations and a former official of the Rural Electrification Administration, has been named the "Man of the Year" for 1981 by the North Carolina State Grange.

Fuller is president of a farm corporation in Franklin County which he owns with his wife and three children.

The award was based also on his religious and community activities.

Grange Offers New Cookbook

Down Home Cookin' With the North Carolina State Grange is a ne cookbook featuring hundreds of recipes contributed by members of the Grange organization.

A special feature of the 242-page cookbook is a collection of recipes submitted by the families of state officials, including Gov. James B. Hunt Jr. and Agricultural Commissioner Jim Graham.

Copies may be ordered by sendin $5.50 each, plus $1 for postage and handling, to Mrs. Judy Dick, 5135 Randleman Road, Greensboro, N.C. 27406. Checks should be made payable to the North Carolina State Grange Cookbook.

Six Tar Heel Artists In Smithsonian Show

The work of six North Carolina artists is part of an exhibit currently on display at the Smithsonian Institution's National Museum of American Art in Washington, D.C.

Entitled "More Than Land or Sky: Art from Appalachia," the exhibit features the work of 69 artists from the Appalachian region. The first national exhibition of fine arts from Appalachia, the show will tour throughout the 13-state region after closing at the National Museum on Jan. 3. The Winston-Salem Arts Council will exhibit the show in the spring of 1982.

The six artists are:

Noyes Capehart, drawing and printmaking teacher at Appalachian State University in Boone since 1969 and present assistant dean of the College of Fine and Applied Arts; Jerry L. Noe, faculty member at the University of North Carolina at Chapel Hill and Lowell Hayes, instructor at ASU's Watauga College.

Also Steve Ferguson, instructional graphics teacher at ASU; William R.

Dunlap, a Boone artist and Marvin S. Coats, a sculpture and design instructor at Wake Forest University, Winston-Salem.

While the exhibit is on display in Washington, a number of exhibition-related programs will be held: films, workshops, concerts, poetry readings and seminars. The programs are designed to help place the art works within their cultural context, and will make a broader range of Appalachian arts available to the public.

The exhibit is funded in part by a grant from the Appalachian Regional Commission.

Six EMCs Elect 22 Directors

One newcomer and 21 incumbents have been elected to the Boards of Directors of six Electric Membership Corporations during recent EMC annual meetings:

- **Albemarle EMC,** Hertford—The newcomer on the board is Billy R. Nixon of Tyner. Re-elected were Archie T. Lane of Rt. 1, Hertford and L.A. Harris, Jr. of Rt. 4, Elizabeth City.
- **Four County EMC,** Burgaw—Re-elected were Garland P. King of Rt. 1, Teachey; O. Homer James of Rt. 2, Wallace; R.W. Blanchard of Rt. 1, Turkey and Iva W. Brinson of Rt. 1, Magnolia.
- **Cape Hatteras EMC,** Buxton—Re-elected were Jack S. Gray of Buxton; Sherman W. Barnett of Frisco and Edward J. Scarborough of Avon.
- **Central EMC,** Sanford—Re-elected were Ed Jones of Rt. 3, Pittsboro; William B. Hulsey, Jr. of Rt. 2, Carthage and James Paschal of Rt. 3, Sanford.
- **Crescent EMC,** Statesville—Re-elected were Jack B. Wooten of Rt. 2, Cleveland; W.B. Renegar of Rt. 6, Mocksville; Paul H. Stroud of Rt. 1, Mocksville; Kenneth Westmoreland of Rt. 2, Huntersville; Henry Gabriel of Rt. 1, Sherrills Ford and Larry W. Payne of Rt. 3, Taylorsville.
- **Surry-Yadkin EMC,** Dobson—Re-elected were Garland M. Chilton of Rt. 3, Mt. Airy; Grady V. Nichols of Rt. 7, Mt. Airy and Paul Cornelius of Rt. 2, East Bend.

Lifetime Sportsman Licenses Available

Lifetime hunting and fishing licenses, as well as lifetime subscriptions to *Wildlife in North Carolina* magazine, are now being offered by the N.C. Wildlife Resources Commission.

Revenues from the sale of these licenses, subscriptions—and outright donations—go into the commission's Wildlife Endowment Fund. Interest from the fund is spent on wildlife conservation.

The first of the lifetime licenses was presented to Gov. James B. Hunt Jr. in recognition of his support for wildlife programs.

Applications for lifetime licenses, magazine subscriptions and information on the Wildlife Endowment Fund are available from license agents, commission employees, and the N.C. Wildlife Resources Commission, 512 N. Salisbury Street, Raleigh, N.C. 27611.

Directories Offered On Toll-Free Numbers

Two publishers are now offering directories of toll-free telephone numbers.

Traveler's Toll Free Directory, which has about 16,000 entries, including 8,000 hotels listed alphabetically by city and state. It sells for $9.95 and is available from Landmark Publishing, Box 3287, Burlington, Vermont.

Toll-Free Digest, which has 25,000 entries, sells for $6.50, plus 50 cents for postage and handling. It's available from Toll-Free Digest, Box 800, Claverack, N.Y. 12513.

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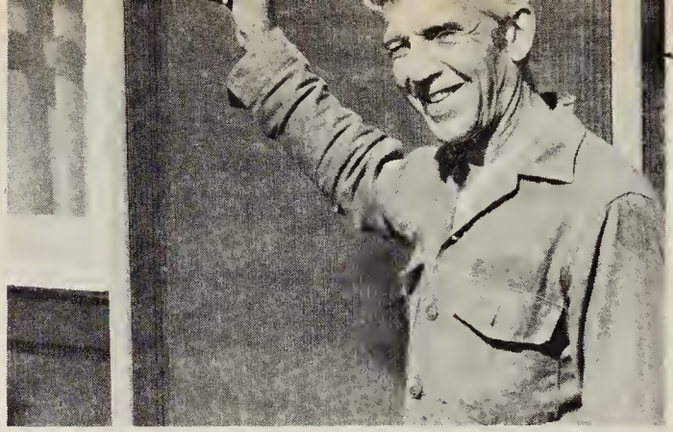
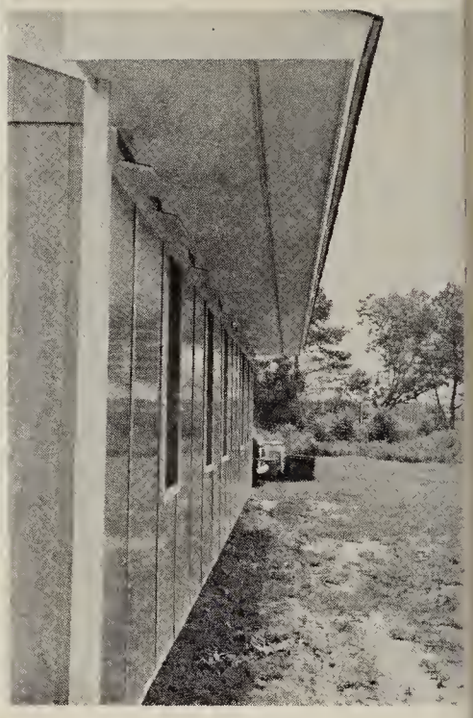


RIGHT—Claude Thomas of Rt. 2, Red Springs, is no longer skeptical about the energy-efficiency of his passive solar home, BELOW. FAR RIGHT—The solar panels he's pointing out are along the entire southern side of the home, covering a concrete wall built especially to absorb heat.



Photos by Jimmy Autry, Lumbee River E

Couple No Longer Skeptical About Their New Home's Energy Efficiency

When Claude and Annie Thomas of Rt. 2, Red Springs, moved into their passive solar home in the fall of 1980, they were somewhat skeptical about just how energy-efficient the structure would be.

Today, they're skeptics no longer.

After a year-long test, covering winter's frostiest temperatures as well as summer's broiling heat, the Thomases are satisfied that the 1,400-square-foot home is every bit as energy-efficient as it appeared to be on paper.

The home was designed with energy conservation in mind, using solar heat and a water-to-air heat pump. Its entire southern side has a double thickness of polycarbon plastic panels over a 12-inch-thick wall of concrete especially built to absorb heat.

All of the windows are double pane to prevent heat loss, and most are situated on the southern exposure. And the entries feature double-door air locks, keeping heat loss at a minimum from those sources.

In addition, the Thomases insulated the home well above the builder's recommendations.

When the home was built, a sub-meter was installed on the heat pump to permit the Thomases and its electric supplier, Lumbee Electric Membership Corporation, Red Springs, to closely monitor power use for heating and cooling.

As of November 1, the home had registered 26 kilowatt hours for heat. That amounted to $2.09. About 30 days later, the meter had moved up to 66 kilowatt hours. That added another $2.70 to the Thomas' heating bill.

By June 1 of this year, the meter had recorded only 932 kilowatt hours.

"The Thomases had purchased all of $56.14 worth of electricity to heat their home for an entire winter," said Jimmy Autry, information and communications specialist at Lumbee River EMC. "That's less than the average consumer used in a single month."

The next question that faced the Thomases was: Will the winter's savings be quickly absorbed by soaring air conditioning costs during the summer?

As it turned out, in June they used 395 kilowatt hours for air conditioning at a cost of $23.70. July's hotter temperatures brought a somewhat higher reading—495 kilowatt hours at $32.22.

"The July cost is especially good when you consider that that's when the EMC was hit with higher fuel charges from Carolina Power and Light Co. And those charges are passed on to the consumer-members," said Autry.

The home's passive solar design is based on taking advantage of the sun's position in the southern sky.

"Since the sun is lower in the winter, heat can reach the collection wall on any day it shines," Autry pointed out. "But the summer sun is high above the horizon. The southern wall of the home is shielded from the sun, and is also vented to allow heat from reflected rays to be drawn away."

With energy savings tax credits and other adjustments, the $48,500 home brought the Thomases a $2,701 federal tax refund and an $839 state tax refund.

"This is the home of the future," Autry said. "Already, requests for information about the design have come from as far away as Minnesota and Wyoming. The Farmers Home Administration is now eyeing it as a possible prototype for the future."

Small Windmill Offers Hope

Professor: Wind Power Is Still Feasible

Despite the breakdown of the wind generator on Howard's Knob overlooking Boone, wind power is a feasible means of producing electricity, an Appalachian State University professor says.

Dr. L. Linn Mackey of the Earth Studies Program at ASU, said two smaller windmills he supervises demonstrate the workability of wind generation.

Wind has not been used in this region like it has in the Mideast," he said. "We're hoping to build that kind of experience for the service and construction of these household-size machines."

The 1.5 kilowatt windmills, one at the Earth Studies farm in Valle Crucis and the other at Doughton Park on the Blue Ridge Parkway, will each generate an average of 350 kilowatt hours a month. Mackey said.

The windmills have three blades with a diameter of 13 feet and are mounted on 60-foot towers. The machines are designed to reduce a household's dependency on utility power by about half, and to occasionally generate power into power company lines.

With the passing of federal legislation requiring utilities to buy any excess power generated by individuals, power companies have been anxious to get practical experience in dealing with home power generation, Mackey said.

So, as a co-sponsor of the project with ASU, the Parkway and the Department of Energy, Blue Ridge Electric Membership Corporation Lenoir, has been working closely with Mackey and his students.

Mackey's wind generators are wired to produce power for nearby buildings. If the wind is steady and the generator is producing more power than is immediately needed, the excess electricity is automatically shunted into the EMC system through a special circuit arrangement.

A meter will tell the co-op how much electricity the machine pumped into the lines. The EMC later pays for the electricity that flows into its system.

"What you're doing is using the utility as a backup and storage system," Mackey explained.

Mackey and his students installed both generators and do whatever servicing either unit may need. "The hope is that some of those students will remain in the area and begin to sell and service wind generators," Mackey said.

"We're never going to have much use of wind power unless we have people in the area who can put up those things, " he said.

The machines use mechanical and engineering principles established 40 to 50 years ago, Mackey said.

"We're dealing with technology that has been around a long time. There were some 200 companies in the '30s and '40s selling and servicing wind generators to rural families. Most of the problems were solved back then. "The problem with the Howard's Knob windmill is its size," Mackey said.

"Any time you scale something up like that, you're going to run into problems. The sad thing about the whole episode is that it gives the impression that wind is an unreliable source,"he said.

The big machine had sheared off several drive shaft bolts in January and was forced to shut down.

"The problem with the Howard's Knob windmill is its size. Any time you scale something up like that, you're going to run into problems."

Boone's Windmill May Be Headed For Tropical Site

The huge wind turbine generator at Boone, now scheduled for mothballing for the winter, may be back in operation next spring—amid the tropical breezes of Hawaii.

"Right now the chances of it being removed or dismantled are 100 percent," said John Collins, the windmill's project manager for the National Aeronautics and Space Administration (NASA).

He said the Hawaiian electric utility is considering taking the machine and installing it in the islands.

"Although other alternatives are being considered, they are the leading contender now because they have a high wind site and could utilize the machine."

Collins pointed out that the machine would become "a commercial operation" if it goes to a new location because the government is ending its involvement in the experimental project.

The windmill was slated for mothballing earlier this year after repairs on it were delayed due to uncertainty over the wind energy research program's budgetary allocations. It has been idle since January, when bolts were sheared off in the coupling connecting the low-speed shaft to the rotor blades.

Collins pointed out that Blue Ridge Electric Membership Corporation, Lenoir, the operating utility in the project, had been offered a chance to take over the windmill but had declined the offer.

He added that whatever fate is in store for the windmill, the experiment has been successful.

"It's been a very positive program in Boone. The residents have been very supportive and the utility has been outstanding. This has been an overall benefit to wind energy research."

Hydroelectric Project Gets REA Loan Commitment

An 80-year-old dam in Marshall, which was originally used to furnish power for a grist mill in the early 1900s, is in the process of being redeveloped as a hydroelectric generating plant by French Broad Electric Membership Corporation, Marshall.

The Rural Electrification Administration recently approved a $735,000 loan guarantee commitment for the $6,175,000 Capitola Dam project, located on the French Broad River. Additional funding will come from REA and other lending agencies, according to French Broad officials.

Construction will begin on the project in October, 1982, after all licensing requirements are met and bids are accepted for the purchase of equipment and the construction work.

The dam will produce in excess of 20 million kilowatt hours of electricity a year, furnishing power for about 2,775 homes, according to Rick Thomason, the EMC's energy conservation advisor.

French Broad EMC operated the dam in the early 1940s, but the project ceased to be economically feasible when the turbine suffered extensive damage in 1958 and the cost of repairs proved to be prohibitive.

Since the cost of power has increased so dramatically in recent years, the project is again economically feasible, Thomason said.

On completion of the project, French Broad will be serving 26,985 consumers over 2,851 miles of line in portions of four counties in North Carolina and two counties in Tennessee.

COMMENTARY

Why Not "Scarlet Letters" For Tar Heel Motorists?

While North Carolina automobile drivers are arguing whether their car license plates should carry the slogan of "Freedom First" or "Variety Vacationland" or maybe even "Watch My Dust," car owners in Australia are driving under a very different system.

Remember Nathaniel Hawthorne's classic novel, *The Scarlet Letter*, in which the poor heroine, Hester Prynne, had to go through life wearing an embroidered scarlet letter "A" on her breast because she bore an illegitimate child?

In Australia, the "scarlet letter" that reveals the sin is worn on the license plate. The automobile driver who is free of accidents carries a capital "M" on his license plate, indicating he is a "Master Driver." The driver with a bad accident record must carry a "P" for "Probationary Driver" on his license plate, so anyone encountering him on the highway can beware. In between these two extremes are other letters that indicate the driver's previous record.

Could we transplant that system to North Carolina?

It's easy enough to reward the good driver with such a designation on his license plate as "M" for "Master Driver." That would reassure other drivers who meet him on the highway or follow along behind him.

But what about the warning letters? We might require a driver who has been convicted of speeding to carry the letters "SP" on his plate so other drivers could beware of his propensity for driving too fast. We might require the driver convicted of "reckless driving" to carry a "RD" to warn other drivers. And certainly it might be helpful to order any driver convicted of "Driving Under the Influence" to wear his own "scarlet letter" of "DUI"—*Walter Spearman*,in The Smithfield Herald, *reprinted by* The State.

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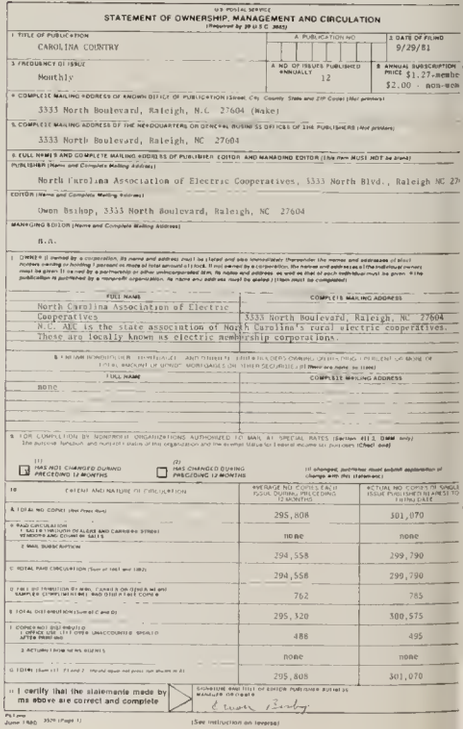

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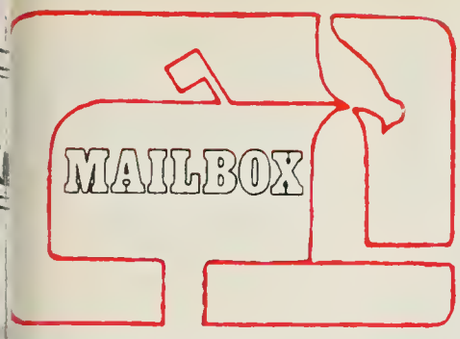

'Enjoyed Coverage Of Cape Hatteras Lighthouse"

I received my September issue of *Carolina Country* and thoroughly njoyed the coverage of the Cape latteras Lighthouse, and the cover of ne magazine, with the tall lighthouse, as very pretty.

The historic landmark is indeed reatened. Let's hope it will be anding for a long time—cause it's sited each year by lots of people who re tourists.

J. Kellum
Jacksonville

ublic Needs More Exposure To The Plight of This Historic Structure"

In reference to your article oncerning saving the Cape Hatteras ghthouse, I have some suggestions at might be used to raise money for e project: Production and sale of a) hos suitable for framing; b) hard d/or soft cover books containing story, photos, physical dimensions d technical information regarding e structure.

I don't believe the plight of this storic structure has received fficient public exposure!

Walter Tilley
Rt. 2, Statesville

Willie Is A Real Samaritan"

In the September, 1981, edition of arolina Country, on the Grits page e first article, "He's a Hero" was out Willie Wilson.

From personal experience we can cond this. On a Sunday last spring we ere attempting to launch our boat d the steering was frozen. We were out to give up on our undertaking, ll the drain plug, and get rid of our at problems once and for all. When ntemplating this simple solution, a ung man came along, whose name learned later to be Willie Wilson, rveyed our predicament, brought t the necessary tools and lubricants d in short order we were afloat and our way.

Willie is a real samaritan.

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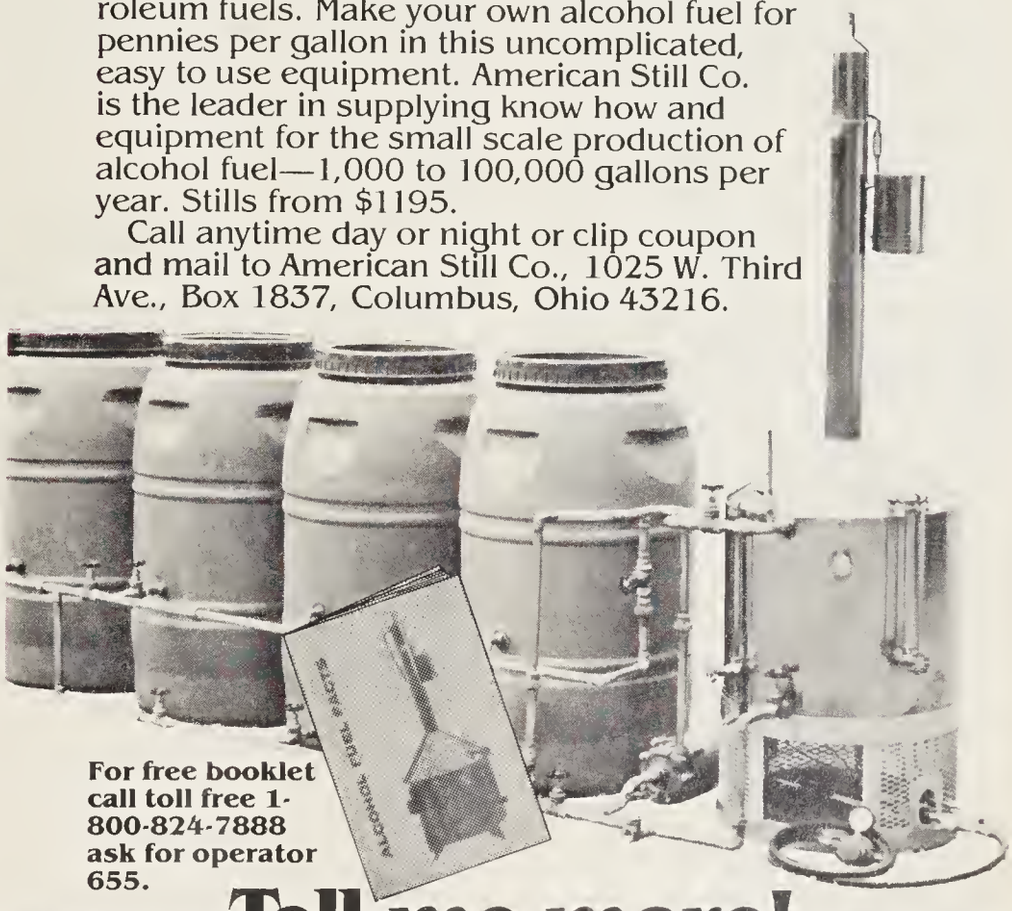

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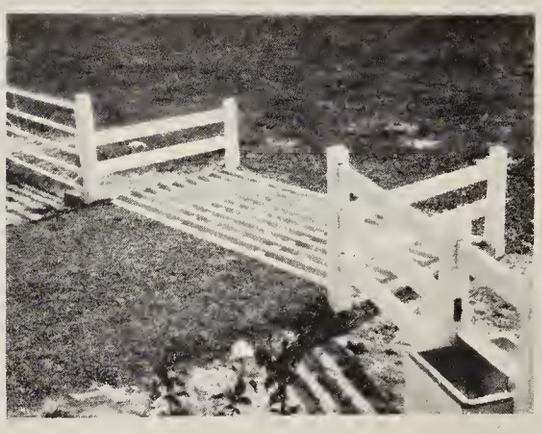

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London University "Crash-Loss" Wonder Diet . . .

BURNS AWAY MORE BODY FAT EACH DAY THAN 15-HOURS OF NON-STOP EXERCISE!

Shrinks Down Your Waistline As Much As A FULL SIZE SMALLER IN JUST 24 HOURS

4 SIZES SMALLER IN JUST 14 DAYS!

YOU ACTUALLY SHRINK YOUR BODY'S FAT CELLS STARTING IN JUST HOURS!

What you see on this page is news of a fantastic crash-loss program—the remarkable London University super slim-down diet—that speeds up your body's rate of fat burn-off so that, IN JUST A MATTER OF HOURS, you start to burn away clinging layers of fat . . break down bulging pockets of flab . . drain away excess puffy fluid, **just like hot water melts down ice** . . so that, in just the first 48 hours, excess flab, fluid and fat gets melted away at such a staggering rate of speed you:

LOSE up to 1 lb. EVERY 8 to 12 HOURS

LOSE up to 1½ to 2 lbs. EACH DAY!

Yes, lose weight by the hour, carve away inches by the week and as stated above, and we feel compelled to repeat . . shrink down as much as 4 sizes smaller IN JUST 14 DAYS!

GOVERNMENT OFFICIAL LOSES 10 POUNDS IN JUST 72 HOURS—

So effectively does this University wonder "crash-loss" diet step up your system's rate of fat burn-off, that.

■ When tested at one of medical science's foremost research centers on scores of grossly overweight men and women . . they lost as much as 7 lbs. of excess fat, flab and fluid IN JUST THE FIRST 72 HOURS ALONE . . and as much as another 3-5—even 7 POUNDS MORE the next 14 days!

■ Even more amazing . . when tested not on ordinary overweight people but on the most extreme cases of obesity . . . it EVAPORATED up to 10 POUNDS OF FAT, FLUID AND FLAB IN JUST 3 DAYS TIME!

AS MUCH AS 50% OF ALL EXCESS WEIGHT GONE IN JUST 14 DAYS!

■ But most mind boggling of all . . when tested on average overweight people . . . who for years lugged around a 'spare tire' bulge of 10, 15 or even 20 extra sagging pounds . . IT ACTUALLY MELTED AWAY AS MUCH AS 50% OF ALL EXCESS WEIGHT IN JUST 14 DAYS!

Yes, stepped up their body's rate of fat burn-off and melted away hard set fat with OVER 20 TIMES THE SPEED OF EVEN BRUTAL EXERCISE!

TURNS YOUR ENTIRE BODY INTO A SUPER FAT-BURNING FURNACE!

In fact, based upon Calorie Burn-Off Research From California's Leading Medical School, the calorie-deficit created in your system by this 'crash-loss' high-burn program (a staggering deficit of as much as 2,400 calories a day off required daily intake) works with such breathtaking speed you actually:

BURN AWAY MORE FAT EACH DAY than

- *Running 100 Miles A Week*
- *or—over 3,000 sit-ups and push-ups a day*
- *or—10 Solid Hours of Weight-lift workouts*
- *or—even 15 hours of non-stop Marine Corps calisthenics!*

WAKE UP SLIMMER THE VERY FIRST MORNING!

What is this amazing fat-destroyer wonder program that helps to burn away fat by the hour—carve away inches by the week?

Briefly stated . . it is London University's crash-burn diet, a remarkably simple way to take special combinations of high-burn foods and create what doctors call a "hypocaloric effect" to take place inside their bodies . . that turns their system into a GIANT FAT BURNING MACHINE! Yes, actually reverses your body's fat build-up process as you COMPLETELY STOP EXCESS fat-builder calories from entering your system . . or being absorbed by your body and turned into fat like in the past! So obviously, down go the calories, up goes the rate of fat-burn-off and off come the pounds and inches at a rate that absolutely staggers the imagination!

Yes, a TOTAL FAT-DESTROYER program that literally "ignites" a fat-burning chain-reaction inside your system . . and ACTUALLY SHRINKS YOUR BODY'S FAT CELLS starting in just hours

IF YOU READ NOTHING ELSE, READ THIS

This program involves a high-speed crash-loss diet that lowers caloric intake essential to the reduction of body weight. Such results cannot be achieved solely through the use of the tablets. The more overweight you are the higher caloric requirements, the more you have to lose, the faster you should lose it.

Because, quite obviously . . since this London University ALL OUT ASSAULT ON FAT lowers your system's rate of calorie intake raises the level of calorie burn-off . . "revs-up" fat-burning metabolism . . pounds and inches vanish at a rate that in plain simple talk is ABSOLUTELY MIND BLOWING!

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World's Leading Medical Authority on Obesity Reports:

'. . . as much as 50% of all excess fat gone in just 14 days.'

Called "MIRA-SLIM/100," these amazing tablets turn off your hunger drive . . that maddening urge to eat just like you turn off a light switch. Makes it easier to lower calorie intake so you safely, surely TURN UP the level of your fat-burning metabolism after every time food enters your body on this London University wonder diet program.

Meaning the food you take in, the calories you enjoy are burned away even more quickly by your own stepped-up metabolic system. Yes, metabolized and oxidized in as little as 2 to 3 hours after eating!

THE FOOD YOU EAT NO LONGER TURNS TO FAT!

So, obviously, since it takes far less food to satisfy you, lowering calories is a lark. And since the calories you do take in on this "crash-loss" diet program are burned right out of your body after every time you eat . . you start to TURN SLIMMER, not only the very first day . . BUT—after the very first meal—**and every meal thereafter!** as excess fat and fluid start to disappear—GET OXIDIZED BY THE HOUR!

PROVE EVERY LOST OUNCE, EVERY LOST INCH —ENTIRELY AT OUR RISK

Right now, look at your figure in the mirror and ask yourself these questions—the solution to which is right now within your grasp.

How would I look one week from today as much as 5 to 10 pounds lighter?

How would I look in 2 weeks with my waistline 2 to 4 sizes smaller?

BUT DON'T STOP THERE—if you need to lose still more inches, then continue the London University "crash-loss" diet, continue to take "MIRA-SLIM/100" until you've reached the figure of your dreams.

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COUNTRY KITCHEN

COUNTRY KITCHEN

This delicious breakfast dish has been a favorite of the Clark family for several years, and it's easy to see why. It's such an attractive way to serve the traditional breakfast favorites, sausage and eggs. And it can be a main dish for lunch or supper as well. "Just fill the center with mashed potatoes," says Mrs. Clark. Add a pretty green vegetable and a salad and you have a hearty fall supper for your family.

COUNTRY KITCHEN

Submitted by Mrs. Pat Clark of Bessemer City

SAUSAGE RING

Grease lightly a 7" mold. Press into the bottom of the mold three tablespoons of crushed corn flakes.

Mix well:
1 lb. sausage (plain or hot)
1 Tbl. minced onion
3/4 C. fine bread crumbs
2 Tbl. parsley flakes
1 egg, beaten

Place mixture in mold. Bake ring at 350° for 1/2 hour. Drain fat after 15 minutes of cooking. Invert ring on a platter and fill center with 8 scrambled eggs. Serves 6.

If you would like to share a recipe with this column, send it to: CAROLINA COUNTRY, P.O. Box 27306, Raleigh, NC 27611. We pay $5. for published recipes and present each monthly winner a set of 50 recipe cards with the winning recipe printed on them.

eatures Magazine Format

TV Series Covers Statewide News, Issues

"Stateline," a public affairs ogram produced by the niversity of North Carolina enter for Public Television, has en redesigned to provide more tensive coverage of statewide ws and issues.

The series, which had consisted imarily of interviews and reports state government from Raleigh, w features a magazine format h reports from various locations ound the state.

A typical show includes two ture stories on major topics of erest; a profile of a North rolina personality; "Speakout," series of street interviews in ich Tar Heels express opinions out various issues; "Mailbag," senting letters from viewers d "Update," a summary of ent and upcoming news events.

Major news events such as state elections may receive special live coverage in the future, while other significant issues and trends concerning state government will be reported on the program as they arise.

For years *Stateline* was just a gleam in the eye of its moderator, Richard Hatch.

"We've been covering the legislative sessions since the early 70s," he said, "but the program always ended when the sessions did. I wanted to continue the show on a permanent year-round basis, and expand the scope to cover a broad range of state affairs."

A key feature of the program's new format is the on-location reporting done by field reporter/producers Audrey Kates and Lew Gitlin.

They're scheduled to traverse the state to film stories on drug-smuggling operations in coastal North Carolina, problems with the giant windmill in Boone, the resurgence of minor league baseball, the overcrowded conditions at women's prisons, and what the federal budget cuts in education will mean for North Carolina.

The series airs on Fridays at 7:30 p.m., with repeats on Sundays at 6:30 p.m.

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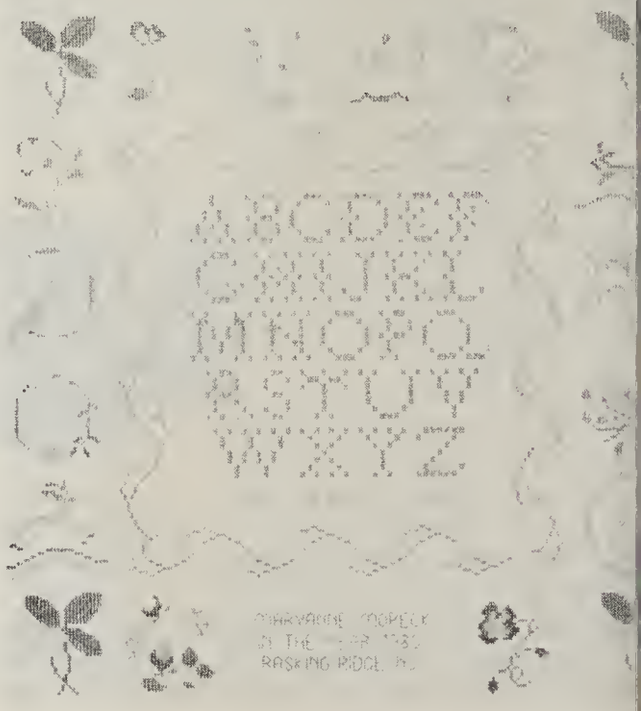

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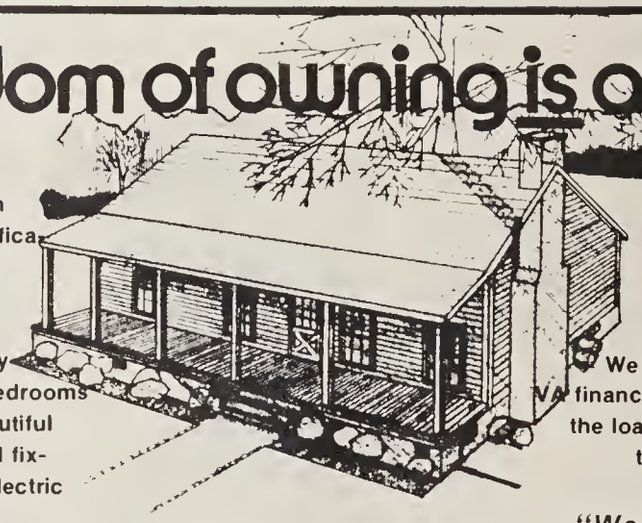

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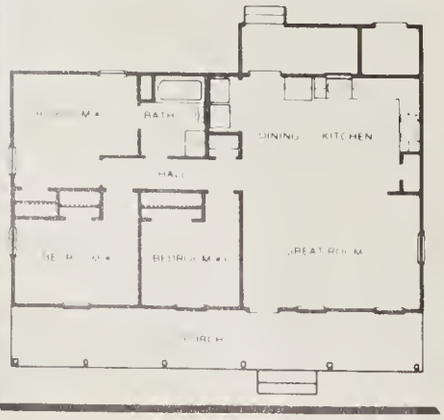

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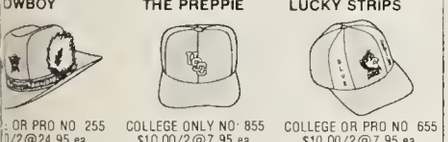

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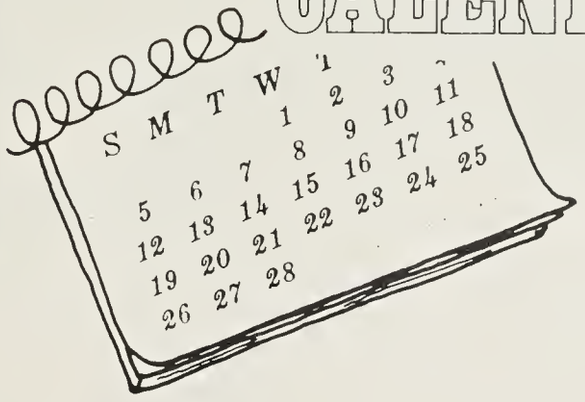

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5	Carteret-Craven, Morehead City	Registration: 6 p.m. Business Meeting: 7:30 p.m.	Beaufort Elementary School

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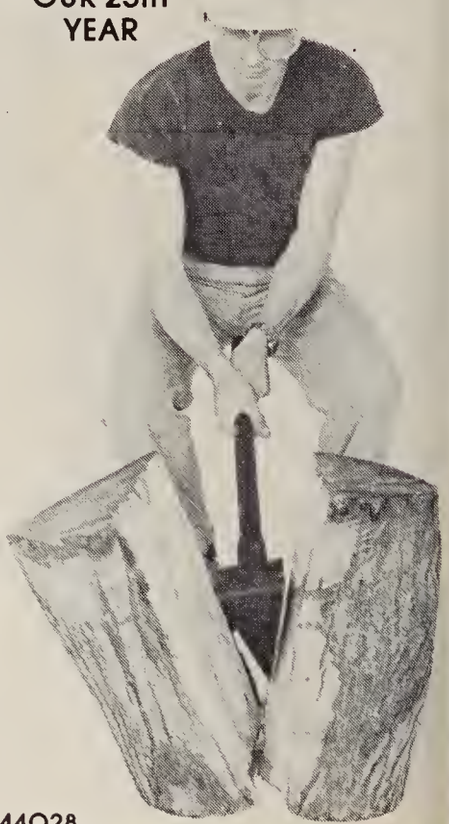

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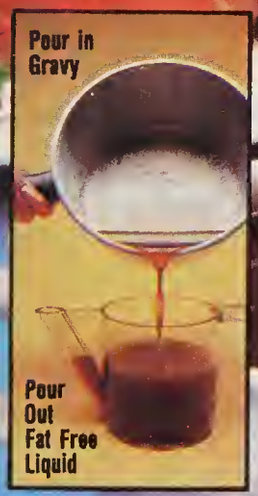

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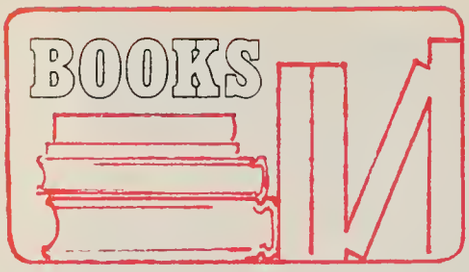

The Source of Light, by Reynolds Price. New York: Atheneum, 318 pages $13.95.

Reynolds Price continues the family story begun in *The Surface of Earth* with *The Source of Light*, his tenth book.

It presents three pieces of the life of Hutchins Mayfield, from May, 1955, to March, 1956.

These are crucial months for Hutch: as he tries to extricate himself from complicated "family webs" to study abroad, he is called back home to attend his father's sudden dying and face the old questions. Where is his center of gravity, his home? What does he really love and hope for? How can he be happy?

Clearly, this is Price's somewhat autobiographical portrait of the artist as a young man. As such, it encounters some problems. In his quest for artistic independence, Hutch seems excessively self-absorbed and unwilling to make lasting commitments.

The hypersensitivity of his condition seems to have afflicted both protagonist and author: the many love scenes earlier in the book are incredibly overwrought and rhapsodic—and vague about the matters actually at hand. Also, the conventional exchanges throughout the book are unbelievably clever and articulate.

The writing is admirable in a way but it's often too proficient, too intelligent, too self-conscious.

But *The Source of Light* also has some luminous scenes—the opening one at Warm Springs, several chapters of travel, a long reflective letter from father to son (where verbal facility would be natural). And Price is quite good at capturing the atmosphere of a place and in anchoring big themes in local lives: he is an impeccable and thoughtful craftsman.

Whatever its disappointments, *The Source of Light* is a source of considerable hope.

It's gratifying to know that a North Carolina native and gifted writer is attempting an ambitious family epic set so close to home.

Black Mountain Breakdown, by Lee Smith. New York: Putnams, 228 pages, $10.95.

Cakewalk, stories by Lee Smith. New York: Putnams, 256 pages, $12.95.

Lee Smith of Chapel Hill has published two books of pungent and poignant fiction this year. Both are entertaining and deeply satisfying, especially for the deadpan accuracy of their particulars, those recognizable comic details from ordinary life which afford sharp mica-like glints of amusement, embarrassment, and sorrow and lore all at once.

Black Mountain Breakdown, Smith's fourth novel, is set in an Appalachian mountain town. It covers the eventful life of Crystal Spangler from her girlhood to her early thirties. Crystal experiences the things any pretty young girl might, but she feels everything extremely: her sensitivity sets her apart, for better and for worse, and it's hard to tell just what she's thinking behind those deep eyes.

But the world she moves through should be familiar to anyone from the small-town-then-suddenly prosperous South.

The book is a series of memorable scenes, vivid and somehow sad, and in name and behavior Smith's characters are so well-observed that it's like stumbling into a family or class reunion. How many of our lives are full of relatives and friends like Babe and Neva and Nora and Roger Lee and Mack?

Black Mountain Breakdown can cut to the quick like the country songs its title mimics.

Cakewalk, a collection of 14 prize-winning stories, exhibits just as sharp an eye and ear and even more variety. There are stories set in Smith's native Appalachia, but there are also those set at the beach featuring the upper crust from Richmond or Columbia. Her version of women—especially the average woman, the housewife hooked on Phil Donahue or mother growing old—is particularly accurate and compassionately pitched. Her stitch is sure in this bright quilt of stories.

Lee Smith is dead serious and deadly funny. For sheer energy and comedy and ability to transform the common stuff of living, "all this pain and loving, mystery and loss," into worthy stories, she takes the cake.

—*Michael McFee*

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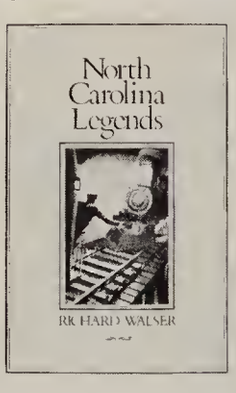

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or nearly 30 years, North Carolina's kels for Know-How program has pported research, extension and ching in the School of Agriculture l Life Sciences at North Carolina te University.

he unique program, first approved 1951, allows users of feed and ilizer to directly support NCSU ricultural work through an essment they vote on every six rs.

s High Acceptance

he Nickels program is unusual not y in structure but also in the high gree of acceptance it has been given those who contribute money to it. raditionally, over 90 percent of se voting on it have voted for the gram. The last referendum, held in 5, received a 92 percent favorable e.

he Nickels program will be up for pproval on Nov. 24. For this vote, the program has been renamed 2 Nickels for Know-How to reflect an increase in the assessment rate from one to two nickels per ton of feed and fertilizer.

Funds Hit By Inflation

The increase is needed, explains NCSU Dean J. E. Legates, because of the decreased buying power of the dollar. "The value of the Nickels fund has been severely eroded by inflation," said Legates. "This five-cent increase will help shore up the fund and allow us to continue to realize the same kind of value from it that we have in the past."

Even with the increase, individual contributions to Nickels will be modest. Under the proposed rate, the buyer of a 100-pound bag of feed or fertilizer would be donating only one-half cent to the program. Only the state's largest farmers would contribute more than about $2 per year.

Legates feels that producers of every farm commodity grown in North Carolina have benefited from the Nickels program at some time.

"We have research and extension projects that involve essentially every farm commodity," said Legates. "We have used Nickels money for most of them over the life of the program, so we feel that everyone who participates when buying feed or fertilizer realizes a return on the investment."

Money Use In Emergencies

Nickels funds are frequently used to meet emergencies, to start new programs and to employ and keep the best trained scientists, specialists and teachers.

State appropriated funds are earmarked for specific use. Money from the Nickels program provide the School of Agriculture and Life Sciences with invaluable flexibility to meet unexpected needs, Legates explained.

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The postcard, carrying an order from a New York company that no longer exists, was discovered and postmarked in a New York post office in 1979. It still took another two years to reach its destination.

Trivia . . . From Here and There

- The biggest sheet music hit of all time was "Yes, We Have No Bananas," which sold two million copies in 1923 alone. After it became a hit, the Westman Company sued the song's publishers, charging that the melody was a direct steal from Handel's oratorio, "The Messiah." Westman, which published Handel's music, proved its case in court and was awarded a share of the song's profits.
- The stocks, a favorite colonial method of punishment, were invented in 1634 by a Boston carpenter named Palmer. He submitted a bill for one pound and thirteen shillings for the construction, but the town elders felt this was too much and accused Palmer of profiteering. The court found him guilty, fined him one pound and sentenced him to spend a half hour in the stocks. Thus, the man who invented the stocks became the first to occupy them.
- It takes 62,860 trees to make the pulp for one Sunday edition of *The New York Times.*

Maybe You Can Fight City Hall!

If you're convinced that you can't have any impact on the decisions of giant companies or government agencies, you can take heart from a recent incident involving a rate increase that Carolina Power and Light Co. had proposed for its wholesale customers, including 18 electric co-ops.

The increase was scheduled to go into effect on Aug. 11, boosting the cost of power the co-ops buy from CP&L by about $14.7 million a year. However, the Federal Energy Regulatory Commission decided to suspend the new rates for the maximum period allowed—five months. The ruling, which saved the co-ops about $6 million, was based in part on letters from consumers protesting the rate hike.

The agency's order calling for the suspension even pointed out that "over 400 individual customers have . . . filed letters of protest, requesting either rejection of the filing or the maximum suspension period."

It was the first time in the memory of any active Tar Heel co-op officials that the agency had referred directly to consumer protests in a formal rate case order.

More On Success

The item about success in my last column drew comment from Fayetteville attorney Joe McLeod, who wrote that Hobbs' definition of success reminded him of Emerson's definition:

"Success is to laugh often and much; to win intelligent people's respect and children's affection; to earn the appreciation of honest critics and endure the betrayal of false friends. Success is to appreciate beauty, to find the best in others; to leave the world a bit better whether by a healthy child, a garden patch, or redeemed social conditions; to know even one life has breathed easier because you once lived."

Said McLeod: "As you pointed out, there is no mention of stocks, bonds or financial portfolios in the true definition of success."

Meanwhile, I ran across the results of a study that tie in with Hobbs' emphasis on success being related to the joy that's derived from one's work.

The study, conducted by Dr. Kenneth A. Kovach of George Mason University, Fairfax, Va., explored how workers in 1981 ra sources of job satisfaction as compared with similar workers in 1946.

At the top of the 1981 rankings was "interesting work," with "ful appreciation of work done" in second place. Third was "feeling being in on things."

In the 1946 rankings, "interesti work" was down in sixth place, while the top three were: 1) "full appreciation of work done," 2) "feeling of being in on things," a 3) "sympathetic help on personal problems."

"Job security" and "good wage were ranked fourth and fifth in b surveys.

The supervisors in both surveys had a far different view of how th employees would rank these job-motivation criteria. And, for the f five rankings, produced identical 35 years apart: 1) "Good wages," "job security," 3) "promotion an growth in organization," 4) "goo working conditions," 5) "interesti work."

Thank You, Ann Landers

Syndicated columnist Ann Land once ran this anonymous little ve sent in by one of her readers:

Did is a word of achievement.
Won't is a word of retreat.
Might is a word of bereavemen
Can't is a word of defeat.
Ought is a word of duty.
Try is a word of each hour.
Will is a word of beauty.
Can is a word of power.

—Owen Bis

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The photo, which appeared in the book *Birds of the Carolinas*, is reprinted in the size of the magazine, with a white border on heavy 11" by 14" glossy finish stock. They're priced at $4 each, including postage charges. Use the coupon below to order your copy.

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NEW TWILIGHT TANGERINE CACTUS

. . . AND OTHER HARD–TO–FIND HOLIDAY CACTUS

A SPECIAL PRE–HOLIDAY OFFER

TWILIGHT TANGERINE

Just in time to add a vivid new color to your holiday decorations. The rich green pendent branches of this dazzling new Christmas Cactus are tipped with a delicate combination of peach and orange pastels. We predict a sell-out of this exciting cactus, so order early to not be disappointed.

Cat. No. H706 Twilight Tangerine $3.95 each 2 For $7.20

WE GUARANTEE YOU'LL BE SATISFIED

If within one year of receipt you are not completely satisfied with your Holiday Cactus return the SHIPPING LABEL ONLY for a free replacement or purchase price refund — your choice. We guarantee our plants to be vigorous and healthy in every way.

FREE

CULTURAL INSTRUCTIONS

Learn how to do shading and cooling to stimulate flowering of cacti. Easy to do!

FLOWERS FOR THE HOLIDAYS

Few plants can match the brilliance and beauty of the spiny, 3" to 4" blossoms — like so many be-jewelled ornaments on glossy, green branches. We ship well-established plants in 2½" or 3" pots. Order now !

WHITE CHRISTMAS CACTUS

Schlumbergera truncatus "Alba"

Snow white blossoms and shiny holly green leaves make this new Christmas Cactus the perfect holiday centerpiece. Blossoms appear early in December and continue through January. We offered this for the first time a couple of years ago and it has been a smashing success ever since.

Cat. No. H703 White Christmas Cactus — $3.95 each; 2 for $7.20

THANKSGIVING CACTUS

Schlumbergera truncata

Form similar to Christmas Cactus bu flowers about a month earlier.

Cat. No. H702 Thanksgiving Cactus $3.25 each

MAS CACTUS

rgera bridgesii

istmas time, brilliant, carmine-red ith purple-tinged centers appear and esh for weeks on the plant.

H701 Christmas Cactus ed at $1.49 each

CACTUS

psis qaertneri

ping habit of this plant makes it lection for spring hanging baskets.

H700 Easter Cactus $2.90 each

SAVE ON HOLIDAY CACTUS COLLECTIONS

Contains one plant each of Easter, Thanksgiving, Red Christmas and Orange Christ Cactus — $1.19 savings.

Cat. No. HC048 Holiday Cactus Collection — $10.40 for Four Pla

One each of the Red, White and Orange Christmas Cactus — $1.00 savings.

Cat. No. HC049 Holiday Cactus Collection — $8.39 for Three Pla

CLIP AND MAIL TODAY

BURGESS SEED AND PLANT CO.
Dept. 7947—11
905 Four Seasons Road
Bloomington, Illinois 61701

POSTAGE PREPAID

© BURGESS 1979

HOW MANY	CAT. NO.	DESCRIPTION	COST

Name _____ SUB TOTAL _____

Address _____ Ill. Res. add 5% Sales Tax _____

City _____ TOTAL ENCLOSED $ _____

State _____ Zip _____

BURGESS SEED & PLANT CO.
BLOOMINGTON, IL 61701

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